



[c1] A flexible source wire for radiation treatment of diseases within a body comprising:

a flexible, hollow, elongated housing tube having a distal end and a proximal HAVINI, MEMORY RETORTION WHEREIN END SAID HOUSING TUBE IS BONT SAID MATERIAL EXHIBITS LITTLE OR NO MEMORY RETORTION WHEN BONT SAID MATERIAL EXHIBITS LITTLE OR NO MEMORY RETORTION TO SAID BONT POSITION; a flexible backbone wire having a proximal end, said proximal end of said wire being disposed in said housing tube, and further wherein the proximal end of said backbone wire is rounded; and a radiation source or sources provided within said housing tube, said proximal end of said flexible backbone wire being adjacent to said radiation source or sources.

- 2. The flexible source wire in accordance with claim 1 further including a plug which is sealed to said proximal end of said housing tube.
- 3. The flexible source wire of claim 1, wherein said radioactive source is encapsulated within a neutron permeable material.
- 4. The flexible source wire of claim 1, wherein said radioactive source is included within a thin walled-capsule.

5. The flexible source wire in accordance with claim 1 wherein said housing tube is constructed from a material such as Nitinol or a titanium/nickel alloy.

6. The flexible source wire in accordance with claim 2 wherein said housing tube is constructed from a material such as Nitinol or a titanium/nickel alloy.

7. The flexible source wire in accordance with claim 3 wherein said housing tube is constructed from a material such as Nitinol or a titanium/nickel alloy.

8. The flexible source wire in accordance with claim 1 wherein a portion of the inner surface of said proximal end of said housing tube exhibits a tapered funnel shape for ease of loading said radioactive source or sources within said flexible housing tube.

[c2]

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[c4]

[c6]

[c7]

[c8]

[c9] The flexible source wire in accordance with claim 1, wherein said backbone wire is completely disposed in said housing tube. [c10]10. The flexible source wire in accordance with claim 1 wherein said backbone wire is affixed to the interior wall of said flexible housing tube at one or more locations. [c11]11. The flexible source wire in accordance with claim 1, wherein said backbone wire includes a distal end, and wherein said distal end is disposed within said tube. [c12] 12. The flexible source wire in accordance with claim 1 wherein the outer surface of said housing tube is coated with a non-oxidizing agent. [c13]13. The flexible source wire in accordance with claim 12 wherein said nonoxidizing agent is gold. 1/4.A flexible source wire for radiation treatment of diseases within a body [c14]comprising: a flexible, hollow, elongated housing tube having a distal end and a proximal HAVING MEMORY RETANTION end, said housing tube constructed from a material exhibiting little or no WHO SAID HOUSING TUBE IS BENT SAID MATERIAL BOHIBITS LITTLE memory retention when bent: RETENTION TO SAID BENT POSITION; a flexible backbone wire having a proximal end, said proximal end of said wire inserted into said tube, and further wherein the proximal end of said backbone wire is rounded; a radiation source or sources provided within said housing tube, said proximal end of said flexible backbone wire being adjacent to said radiation source or sources.

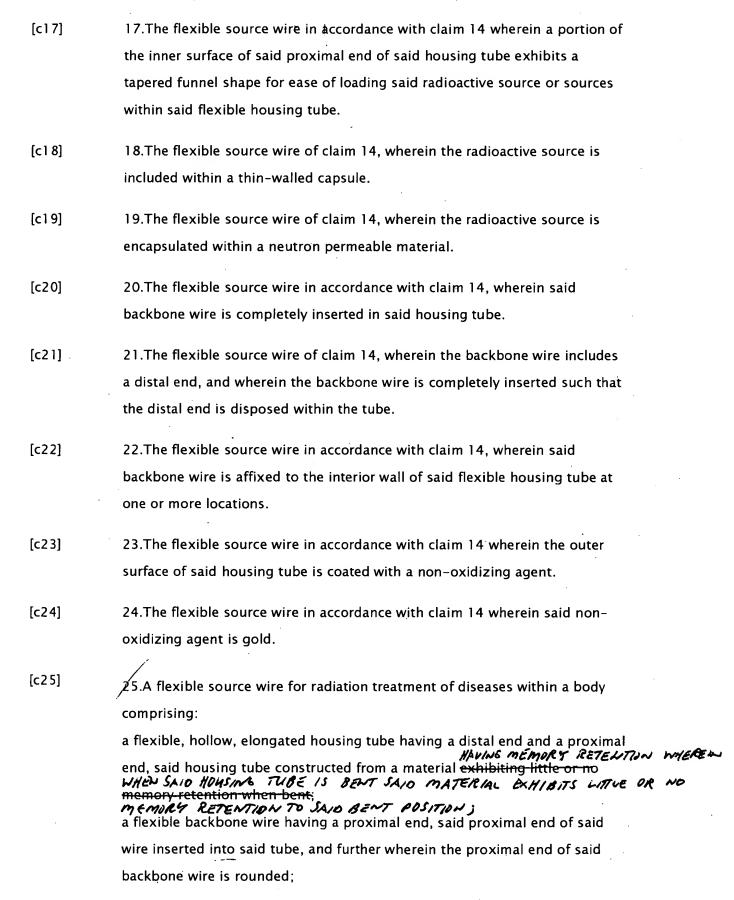
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[c15]

16. The flexible source wire in accordance with claim 14 wherein said housing tube is constructed from a material such as Nitinol or a titanium/nickel alloy.

plug, which is sealed to said proximal end of said housing tube.

15. The flexible source wire in accordance with claim 14 further including a



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[c17]	17. The flexible source wire in accordance with claim 14 wherein a portion of
	the inner surface of said proximal end of said housing tube exhibits a
	tapered funnel shape for ease of loading said radioactive source or sources
	within said flexible housing tube.
[c18]	18.The flexible source wire of claim 14, wherein the radioactive source is
	included within a thin-walled capsule.
[c19]	19. The flexible source wire of claim 14, wherein the radioactive source is
	encapsulated within a neutron permeable material.
[c20]	20.The flexible source wire in accordance with claim 14, wherein said
	backbone wire is completely/inserted in said housing tube.
[c21]	21. The flexible source wire of claim 14, wherein the backbone wire includes
	a distal end, and wherein the backbone wire is completely inserted such that
	the distal end is disposed within the tube.
[c22]	22. The flexible source wire in accordance with claim 14, wherein said
	backbone wire is affixed to the interior wall of said flexible housing tube at
	one or more locations.
[c23]	23. The flexible source wire in accordance with claim 14 wherein the outer
	surface of said housing tube is coated with a non-oxidizing agent.
[c24]	24.The flexible source wire in accordance with claim 14 wherein said non-
	oxidizing agent is gold.
[c25]	25.A flexible source wire for radiation treatment of diseases within a body
	comprising:
	a flexible, hollow, elongated housing tube having a distal end and a proximal
	end, said housing tube constructed from a material exhibiting little or no
	memory retention when bent;
	a flexible backbone wire having a proximal end, said proximal end of said
	wire inserted into said tube, and further wherein the proximal end of said
	backbone wire is rounded;



a capsule inserted into said proximal end of said flexible elongated housing tube;
a radiation source or sources inserted into said capsule; and
a plug which seals said proximal end of said housing tube.

26. The flexible source wire in accordance with claim 25 wherein said housing tube is constructed from a material such as Nitinol or atitanium/nicket alloy.

27. The flexible source wire in accordance with claim 25 wherein a portion of the inner surface of said proximal end of said housing tube exhibits a tapered funnel shape for ease of loading said radioactive source or sources within said flexible housing tube.

28. The flexible source wire in accordance with claim 25, wherein said backbone wire is completely disposed in said housing tube.

29. The flexible source wire of claim 25, wherein the backbone wire includes a distal end, and wherein the backbone wire is completely inserted such that the distal end is disposed within the tube.

30. The flexible source wire in accordance with claim 25 wherein said backbone wire is affixed to the interior wall of said flexible housing tube at one or more locations.

31. The flexible source wire in accordance with claim 25 wherein the outer surface of said housing tube is coated with a non-oxidizing agent.

32. The flexible source wire in accordance with claim 31 wherein said non-oxidizing agent is gold.

[c27]

[c26]

[c28]

[c29]

[c30]

[c31]

[c32]